IN THE SPECIFICATION:

Please amend the specification at page 1, paragraph 1 under Field of the Invention, to read as follows:

This invention relates to methods for detecting specific extracellular nucleic acid in plasma or serum fractions of human or animal blood associated with neoplastic, pre-malignant or proliferative disease. The invention permits the detection of extracellular, tumor-associated nucleic acid in the serum or plasma of humans or other animals recognized as having a neoplastic, pre-malignant or proliferative disease or in individuals without any prior history or diagnosis of neoplastic, pre-malignant or proliferative disease.–Specifically, the invention relates to detection of nucleic acid derived from mutant oncogenes or other tumor-associated DNA, and to methods of detecting and monitoring extracellular mutant oncogenes or tumor-associated DNA found in the plasma or serum fraction of blood using DNA enrichment methods, wherein enrichment-based extraction methods are used prior to amplification and/or detection, or wherein enrichment for the nucleic acid of interest occurs during amplification, in particular through use of a restriction endonuclease. In particular, the invention relates to the detection, identification, or inference of the existence of premalignant neoplasms or tissue in humans or other animals without cancer, wherein the neoplasm contains a mutation that is associated with the neoplasm, through detection of the mutated nucleic acid associated with the neoplasm in plasma or serum fractions. The invention provides the ability to detect extracellular nucleic acid derived from genetic sequences known to be associated with neoplasia, such as oncogenes, as well as genetic sequences previously unrecognized as being associated with neoplastic, pre-malignant or proliferative disease. The invention thereby provides methods for early identification of colorectal, pancreatic, lung, breast, bladder, ovarian, lymphoma and other malignancies carrying tumor-related mutations of DNA and methods for monitoring cancer and other neoplastic disorders in humans and other animals.